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East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

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FAX 420-9210

924-9290

(503) 906-9200 FAX 906-9210 (541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT Work Order #: M 107004

CLIENT: BRISTO(TELEVISION OF THE PARTY OF THE						ICE TO									TUR	NAROUN	D REQUEST in Business	Days*
REPORT TO: AMME K	CRANAU	JETTER				BR	NS	101	-									nic & Inorganic Analyses	
ADDRESS: AMCHIT	KA ISL	AND,	AK														5		1 < 1
PHONE: 907.77C	-0974	FIX 7	70.	00	75	DO N	~ · · · · · · ·									STD.	Petrole 4	eum Hydrocarbon Analyses 3 2 1 1	<1
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Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

7 December, 2001

Anne Kranawetter Bristol Environmental & Engineering 2000 W International Airport C#1 Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 07/02/01 18:14. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson

Environmental Group Leader

1112

Work Orders included in this report:

M107004



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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported: 10/25/01 01:31

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMHV101SL	M107004-01	Soil	07/02/01 15:37	07/02/01 18:14
01AMHV102SL	M107004-02	Soil	07/02/01 15:42	07/02/01 18:14
01AMHV103SL	M107004-03	Soil	07/02/01 15:45	07/02/01 18:14
01AMHV104SL	M107004-04	Soil	07/02/01 15:49	07/02/01 18:14
01AMHV105SL	M107004-05	Soil	07/02/01 15:51	07/02/01 18:14

COC #137

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka Project Number: 21090

Reported: 10/25/01 01:31

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

North Creek Analytical - Mobile Lab

Gasoline Range Organics (n-Hexane to <n-Decane) per AK101

		Reporting							
Analyte	Result	Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV101SL (M107004-01) Soil					Sampled: 07	7/02/01 Rece	eived: 07/02/	01	
Gasoline Range Organics	ND	10.2	mg/kg dry	50	AK 101	07/03/01	07/03/01	0107013	
Surr: 4-BFB (FID)	81.2 %	50-150							
01AMHV102SL (M107004-02) Soil					Sampled: 07	7/02/01 Rece	eived: 07/02/	01	
Gasoline Range Organics	ND	7.35	mg/kg dry	50	AK 101	07/03/01	07/03/01	0107013	
Surr: 4-BFB (FID)	89.8 %	50-150							
01AMHV103SL (M107004-03) Soil					Sampled: 07	7/02/01 Rece	eived: 07/02/	01	
Gasoline Range Organics	ND	7.80	mg/kg dry	50	AK 101	07/03/01	07/03/01	0107013	
Surr: 4-BFB (FID)	78.7 %	50-150							
01AMHV104SL (M107004-04) Soil					Sampled: 07	7/02/01 Rece	eived: 07/02/	01	
Gasoline Range Organics	ND	7.53	mg/kg dry	50	AK 101	07/03/01	07/03/01	0107013	
Surr: 4-BFB (FID)	78.8 %	50-150							
01AMHV105SL (M107004-05) Soil					Sampled: 07	7/02/01 Rece	eived: 07/02/	01	
Gasoline Range Organics	9.16	7.36	mg/kg dry	50	AK 101	07/03/01	07/03/01	0107013	
Surr: 4-BFB (FID)	87.7 %	50-150							

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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

Reported: 10/25/01 01:31

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) per AK102 and AK103 North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV101SL (M107004-01) Soil					Sampled: 07/	02/01 Rece	eived: 07/02/	01	
Residual Range Organics	ND	300	mg/kg dry	1	AK102/103	07/03/01	07/03/01	0107015	
Diesel Range Organics	322	150	"	"	"	"	"	"	D-16
Surr: 1-Chlorooctadecane	85.4 %	50-150							
Surr: Triacontane	84.5 %	50-150							
01AMHV102SL (M107004-02) Soil					Sampled: 07/	02/01 Rece	eived: 07/02/	01	_
Residual Range Organics	ND	300	mg/kg dry	1	AK102/103	07/03/01	07/03/01	0107015	
Diesel Range Organics	261	150	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	86.9 %	50-150							
Surr: Triacontane	93.8 %	50-150							
01AMHV103SL (M107004-03) Soil					Sampled: 07/	02/01 Rece	eived: 07/02/	01	
Residual Range Organics	ND	300	mg/kg dry	1	AK102/103	07/03/01	07/03/01	0107015	
Diesel Range Organics	ND	150	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	85.1 %	50-150							
Surr: Triacontane	88.9 %	50-150							
01AMHV104SL (M107004-04RE1) Soil					Sampled: 07/	02/01 Rece	eived: 07/02/	01	
Residual Range Organics	ND	300	mg/kg dry	1	AK102/103	07/03/01	07/03/01	0107015	
Diesel Range Organics	168	150	"	"	"	"	"	"	D-16
Surr: 1-Chlorooctadecane	86.8 %	50-150							
Surr: Triacontane	92.0 %	50-150							
01AMHV105SL (M107004-05) Soil					Sampled: 07/	02/01 Rece	eived: 07/02/	01	
Residual Range Organics	ND	300	mg/kg dry	1	AK102/103	07/03/01	07/03/01	0107015	
Diesel Range Organics	ND	150	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	87.5 %	50-150							
Surr: Triacontane	94.1 %	50-150							

North Creek Analytical - Mobile Lab



Anchorage, AK 99502-1116

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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Project Manager: Anne Kranawetter 10/25/01 01:31

BTEX,MTBE and Naphthalene per EPA Method 8021B North Creek Analytical - Mobile Lab

Analyte Result Limit Units Dilution Method Prepared Analyzed Batch BLAMHV101SL (M107004-01) Soil Sampled: 07/02/01 Received: 07/02/01 Benzene ND 0.0635 mg/kg dry 50 !1B BTEX/MTI 07/03/01 07/03/01 0107013 Toluene ND 0.254 "" ""	Notes
ND	
Toluene	
Ethylbenzene ND 0.254 "	
Xylenes (total) ND 0.508 "	
Naphthalene ND 2.54 "	
ND 2.34 Surr: 4-BFB 80.1 % 50-150 Sampled: 07/02/01 Received: 07/02/01	
Benzene ND 0.0459 mg/kg dry 50 !18 BTEX/MTI 07/03/01 07/03/01 0107013 Toluene ND 0.184 "	
Benzene ND 0.0459 mg/kg dry 50 !1B BTEX/MTI 07/03/01 07/03/01 0107013 Toluene ND 0.184 " " " " " " " " " " " " " " " " " " " " " " " " " Ethylbenzene ND 0.184 " " " " " " " " " " " " " " " " " " "	
Toluene ND 0.184 " <t< td=""><td></td></t<>	
Toluene ND 0.184 " <t< td=""><td></td></t<>	
Xylenes (total) ND 0.367 "	
Xylenes (total) ND 0.367 "	
Naphthalene ND 1.84 " " " " " " " "	
Surr: 4-BFB 93.8 % 50-150	
01AMHV103SL (M107004-03) Soil Sampled: 07/02/01 Received: 07/02/01	
Benzene ND 0.0487 mg/kg dry 50 !1B BTEX/MTI 07/03/01 07/03/01 0107013	
Toluene ND 0.195 " " " " "	
Ethylbenzene ND 0.195 " " " " " "	
Xylenes (total) ND 0.390 " " " " " "	
Naphthalene ND 1.95 " " " " " "	
Surr: 4-BFB 83.1 % 50-150	
01AMHV104SL (M107004-04) Soil Sampled: 07/02/01 Received: 07/02/01	
Benzene ND 0.0471 mg/kg dry 50 !1B BTEX/MTI 07/03/01 07/03/01 0107013	
Toluene ND 0.188 " " " " " "	
Ethylbenzene ND 0.188 " " " " " "	
Xylenes (total) ND 0.377 " " " " " "	
Naphthalene ND 1.88 " " " " " "	
Surr: 4-BFB 75.6 % 50-150	

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported:

10/25/01 01:31

BTEX,MTBE and Naphthalene per EPA Method 8021B North Creek Analytical - Mobile Lab

Project Manager: Anne Kranawetter

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV105SL (M107004-05) Soil					Sampled: 07	/02/01 Rece	eived: 07/02/	01	
Benzene	ND	0.0460	mg/kg dry	50	!1B BTEX/M	ГІ 07/03/01	07/03/01	0107013	
Toluene	ND	0.184	"	"	"	"	"	"	
Ethylbenzene	ND	0.184	"	"	"	"	"	"	
Xylenes (total)	ND	0.368	"	"	"	"	"	"	
Naphthalene	ND	1.84	"	"	"	"	"	"	
Surr: 4-BFB	99.6 %	50-150							

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported: 10/25/01 01:31

Project Manager: Anne Kranawetter

Physical Parameters per APHA/ASTM/EPA Methods North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV101SL (M107004-01) Soil				Sampled: 07/0	02/01 Rece	ived: 07/02/	01	
% Solids	88.4	0.0100 % by Weigh	t 1	Gravimetric	07/03/01	07/04/01	0107020	
01AMHV102SL (M107004-02) Soil				Sampled: 07/0)2/01 Rece	ived: 07/02/	01	
% Solids	95.5	0.0100 % by Weigh	t 1	Gravimetric	07/03/01	07/04/01	0107020	
01AMHV103SL (M107004-03) Soil				Sampled: 07/0)2/01 Rece	ived: 07/02/	01	
% Solids	90.3	0.0100 % by Weigh	t 1	Gravimetric	07/03/01	07/04/01	0107020	
01AMHV104SL (M107004-04) Soil				Sampled: 07/0)2/01 Rece	ived: 07/02/	01	
% Solids	89.0	0.0100 % by Weigh	t 1	Gravimetric	07/03/01	07/04/01	0107020	
01AMHV105SL (M107004-05) Soil				Sampled: 07/0)2/01 Rece	ived: 07/02/	01	
% Solids	96.0	0.0100 % by Weigh	t 1	Gravimetric	07/03/01	07/04/01	0107020	

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering

Anchorage, AK 99502-1116

2000 W International Airport C#1 Project Number: 21090

Reported:

Project Manager: Anne Kranawetter 10/25/01 01:31

Gasoline Range Organics (n-Hexane to <n-Decane) per AK101 - Quality Control

Project: Amchitka

North Creek Analytical - Mobile Lab

		Reporting	Spike	Source		%REC		RPD	
Analyte	Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0107013 - MeOH Extraction									
Blank (0107013-BLK1)			Prepare	ed & Analy	yzed: 07/0	3/01			
Gasoline Range Organics	ND	4.00 mg/kg wet							
Surr: 4-BFB (FID)	2.20	"	2.50		88.0	50-150			
LCS (0107013-BS2)			Prepare	ed & Analy	yzed: 07/0	3/01			
Gasoline Range Organics	29.4	4.00 mg/kg wet	25.0		118	50-150			
Surr: 4-BFB (FID)	8.92	"	10.0		89.2	50-150			

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Bristol Environmental & Engineering

Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported:

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter 10/25/01 01:31

Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) per AK102 and AK103 - Quality Control

North	Creek .	Analy	vtical	- M	lobi	le]	Lab	1

		Reporting	Spike	Source		%REC		RPD	
Analyte	Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0107015 - 3545 ASE									
Blank (0107015-BLK1)			Prepare	d & Analy	zed: 07/03	3/01			
Residual Range Organics	ND	300 mg/kg wet							
Diesel Range Organics	ND	150 "							
Surr: 1-Chlorooctadecane	18.8	"	23.7		79.3	50-150			
Surr: Triacontane	20.1	"	23.5		85.5	50-150			
LCS (0107015-BS1)			Prepare	d & Analy	zed: 07/03	3/01			
Diesel Range Organics	1400	150 mg/kg wet	1250		112	75-125			
Surr: 1-Chlorooctadecane	23.0	"	23.7		97.0	50-150			
Surr: Triacontane	21.1	"	23.5		89.8	50-150			
LCS (0107015-BS2)			Prepare	d & Analy	zed: 07/0	3/01			
Residual Range Organics	671	300 mg/kg wet	625		107	60-120			
Surr: 1-Chlorooctadecane	20.4	"	23.7		86.1	50-150			
Surr: Triacontane	23.2	"	23.5		98.7	50-150			
LCS Dup (0107015-BSD1)			Prepare	d & Analy	zed: 07/0	3/01			
Diesel Range Organics	1370	150 mg/kg wet	1250		110	75-125	2.17	20	
Surr: 1-Chlorooctadecane	18.9	"	23.7		79.7	50-150			
Surr: Triacontane	21.4	"	23.5		91.1	50-150			
LCS Dup (0107015-BSD2)			Prepare	d & Analy	zed: 07/0	3/01			
Residual Range Organics	617	300 mg/kg wet	625		98.7	60-120	8.39	25	
Surr: 1-Chlorooctadecane	18.2	"	23.7		76.8	50-150			
Surr: Triacontane	20.3	"	23.5		86.4	50-150			
Matrix Spike (0107015-MS1)	So	urce: M107004-01	Prepare	d & Analy	zed: 07/0	3/01			
Diesel Range Organics	2050	150 mg/kg dry	1370	322	126	0-200			
Surr: 1-Chlorooctadecane	26.1	"	25.9		101	50-150			
Surr: Triacontane	23.1	"	25.7		89.9	50-150			

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

Reported: 10/25/01 01:31

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) per AK102 and AK103 - Quality Control

North Creek Analytical - Mobile Lab

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0107015 - 3545 ASE

Matrix Spike (0107015-MS2)	Source	e: M107004-02	Prepared	l & Analy	zed: 07/0	3/01
Residual Range Organics	572	300 mg/kg dry	670	ND	81.4	0-200
Surr: 1-Chlorooctadecane	18.5	"	25.4		72.8	50-150
Surr: Triacontane	20.2	"	25.2		80.2	50-150

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Styl Hill



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Project: Amchitka Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

10/25/01 01:31

BTEX,MTBE and Naphthalene per EPA Method 8021B - Quality Control

North Creek Analytical - Mobile Lab

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0107013 - MeOH Extraction							
Blank (0107013-BLK1)			Prepared &	Prepared & Analyzed: 07/03/01			
Benzene	ND	0.0250 mg/kg wet	t				
Toluene	ND	0.100 "					
Ethylbenzene	ND	0.100 "					
Xylenes (total)	ND	0.200 "					
Naphthalene	ND	1.00 "					
Surr: 4-BFB	2.31	"	2.50	92.4 50	0-150		
LCS (0107013-BS1)			Prepared & A	Analyzed: 07/03/01			
Benzene	1.99	0.0250 mg/kg wet	2.50	79.6	9-138		
Toluene	2.16	0.100 "	2.50	86.4 53	3-151		
Ethylbenzene	2.45	0.100 "	2.50	98.0 61	1-141		
Xylenes (total)	7.09	0.200 "	7.50	94.5 62	2-141		
Naphthalene	2.56	1.00 "	2.50	102 65	5-135		
Surr: 4-BFB	2.52	"	2.50	101 50	0-150		

North Creek Analytical - Mobile Lab



Reported:

425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 **Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering Project: Amchitka

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter 10/25/01 01:31

Project Number: 21090

Notes and Definitions

D-16 Detected hydrocarbons in the diesel do not have a distinct diesel pattern and may be due to heavily weathered diesel.

DET Analyte DETECTED

2000 W International Airport C#1

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception			
			Report recreated from: \\sisters\elmnt\Report\M107004 FINAL 10 25 01 0131.mdb			
			Default Report (not modified)			
0107013-BLK1	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported			
0107013-BS2	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported			
0107015-BLK1	AK102/103	Residual Range Organics	Additional analyte reported			
0107015-BS2	AK102/103	Residual Range Organics	Additional analyte reported			
0107015-BSD2	AK102/103	Residual Range Organics	Additional analyte reported			
0107015-MS2	AK102/103	Residual Range Organics	Additional analyte reported			
M107004-01	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported			
M107004-01	AK102/103	Diesel Range Organics	D-16			
M107004-01	AK102/103	Residual Range Organics	Additional analyte reported			
M107004-02	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported			
M107004-02	AK102/103	Residual Range Organics	Additional analyte reported			
M107004-03	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported			
M107004-03	AK102/103	Residual Range Organics	Additional analyte reported			
M107004-04	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported			
M107004-04RE1	AK102/103	Residual Range Organics	Additional analyte reported			
M107004-04RE1	AK102/103	Diesel Range Organics	D-16			
M107004-05	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported			
M107004-05	AK102/103	Residual Range Organics	Additional analyte reported			